

AMENDMENTS TO THE CLAIMS

Claims 1-20 (canceled).

21. (Currently Amended) A system for ~~maintaining training-emergency personnel persons to remain below a~~ vertical boundary safety-critical elevation in a fire situation, the system comprising:

an emitter positioned at a fixed location and configured to establish a height limit plane in free space at [a] the vertical boundary safety-critical elevation; and

a wearable sensor configured to emit an alarm signal responsive to its intrusion above the vertical boundary into the plane.

22. (Currently Amended) The system of claim 21, further comprising an adjustable vertical support to position the emitter at the vertical boundary safety-critical elevation.

23. (Currently Amended) The system of claim 21, further comprising redirecting elements spaced away from the emitter to receive a signal from the emitter and extend the height limit plane.

24. (Currently Amended) The system of claim 22, further comprising a second emitter configured to combine with the emitter to establish the height limit at the vertical boundary plane in free space at the safety-critical elevation.

25. (Currently Amended) The system of claim 21, wherein the emitter establishes a 360° detection zone that forms the height limit plane.

26. (Previously Presented) The system of claim 21, wherein the emitter is an optical device that emits an optical beam.

27. (Currently Amended) The system of claim 21, wherein the sensor further includes a speaker to emit an audible sound responsive to intrusion above the height limit into the plane.

28. (Currently Amended) The system of claim 21, further comprising a remote control unit to remotely control a vertical position of the emitter to adjust the height limit plane.

29. (Currently Amended) A system for ~~maintaining persons training emergency personnel to~~ remain below a vertical boundary ~~safety-critical elevation in a fire situation~~, the system comprising:

- an emitter configured to establish a height limit plane;
- a vertical support member adapted to position the emitter at a vertical position to establish the height limit at the vertical boundary plane at a safety-critical elevation; and
- a wearable sensor configured to emit an alarm signal responsive to its intrusion above the vertical boundary ~~into the plane~~.

30. (Currently Amended) The system of claim 29, wherein the emitter further comprises an emitter head that is rotatable and ~~rotatably~~ mounted to the vertical support member.

31. (Previously Presented) The system of claim 29, further comprising an adjustment mechanism to selectively position the emitter at selected vertical positions.

32. (Previously Presented) The system of claim 31, wherein the adjustment mechanism is configured to selectively position the emitter at selected angular positions.

33. (Previously Presented) The system of claim 29, wherein the emitter further comprises a receiver that receives signals from a remote control unit to remotely adjust the position of the emitter on the vertical support member.

34. (Currently Amended) The system of claim 29, wherein the sensor further includes a speaker to emit an audible sound responsive to intrusion above the height limit ~~into the plane~~.

35. (Currently Amended) A method for ~~maintaining persons training emergency personnel to~~ remain below a vertical boundary ~~safety-critical elevation in a fire situation~~, the system comprising:

- defining a height limit at the vertical boundary ~~scan plane in free space at a safety-critical vertical elevation~~; and
- providing a wearable sensor configured to emit an alarm signal responsive to its intrusion above the vertical boundary ~~into the plane~~.

36. (Currently Amended) The method of 35, further comprising adjusting a vertical position of the height limit to different vertical boundaries ~~scan plane to different safety-critical vertical elevations.~~

37. (Currently Amended) The method of 35, wherein the step of defining the height limit at the vertical boundary ~~scan plane in free space at the safety-critical vertical elevation~~ comprises establishing the height limit ~~scan plane~~ at a constant level that is substantially parallel to a floor.

38. (Currently Amended) The method of 37, wherein the step of defining the height limit at the vertical boundary ~~scan plane in free space at the safety-critical vertical elevation~~ comprises establishing the height limit ~~scan plane~~ at an angle relative to the floor.

39. (Currently Amended) The method of 35, further comprising configuring the wearable sensor to emit an alarm signal responsive to its intrusion above the height limit ~~into the plane.~~

40. (Currently Amended) The method of 35, further comprising configuring the wearable sensor to stop emitting the alarm signal when the sensor is positioned back below the height limit ~~safety-critical vertical elevation.~~